**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Activity Sheet 2 Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**A Weighty Issue**

Use a scale to measure the weight of each type of coin to the nearest hundredth of a gram. Record the weight in grams.

**Coin Weights**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coin** | **Grams** | **Kilograms** | **Ounces** | **Pounds** |
| **5 cent** |  |  |  |  |
| **10 cent** |  |  |  |  |
| **20 cent** |  |  |  |  |
| **50 cent** |  |  |  |  |

1. You know that the monetary value of two 5 cents and one 10 cent equals a 20 cent. But what about their weights?

Is the weight of two 5 cents and one 10 cent greater than, less than, or equal to (>, <, =) the weight of a 20 cent coin?

Write an inequality describing your answer.

1. How much money would be 25 kilograms of 20 cent coins equal?
2. How many kilograms of 50 cent coins would it take to buy your favorite car?

To find out how much your favourite car costs, visit the Internet.

Price, make, and model of your favourite car:

Calculate here:

What does 1 x 50 cent coin weigh?

What does you favourite car weigh?

How many 50 cent coins are required to make the weight of your car?

Calculate the weight of this many coins and then convert to kilograms.

Visit one of the coin Web sites and record the actual weights for each coin.

**Coin Weights Comparison**

|  |  |  |  |
| --- | --- | --- | --- |
| **Coin** | **Measured Weight (g)** | **Actual Weight (g)** | **Difference** |
| **5 cent** |  |  |  |
| **10 cent** |  |  |  |
| **20 cent** |  |  |  |
| **50 cent** |  |  |  |

1. When you measured the different types of coins, which coin had the largest measurement error?
2. Explain how you might have weighed the coins to obtain a greater degree of accuracy.

**Height**

Measure the height (to the nearest 0.1 mm) of each coin and record the results in the table.

**Coin Heights**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Coin** | **5 cent** | **10 cent** | **20 cent** | **50 cent** |
| **Height (mm)** |  |  |  |  |

1. How high would 100 dollars in 20 cent coins be?

2. What would your height be worth in 10 cent coins?